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Urease-associated heat shock protein of *Helicobacter pylori*.

D J Evans Jr, D G Evans, L Engstrand, D Y Graham

Bacterial Enteropathogens Laboratory, Veterans Affairs Medical Center, Houston, Texas.

Helicobacter pylori urease is an extracellular, cell-bound enzyme with a molecular weight of approx 66K and six 31K subunits. A 62K protein is closely associated with the H. pylori urease, both of which protein can be removed from the urease by ion-exchange chromatography without inactivating the 62K protein and determined its N-terminal amino acid sequence. The sequence is 80% homologous (like the *Escherichia coli* GroEL heat shock protein (HSP)), 75% homologous to the human homolog, and 40% homologous in species of *Chlamydia*. Thus, the 62K urease-associated protein of H. pylori belongs to the chaperonins. Evidently this protein, HSP62, participates in the extracellular assembly and/or protection of the bacterium in the hostile environment of the stomach.

Mesh-terms: *Helicobacter pylori* :: chemistry; Urease :: analysis; Amino Acid Sequence; Bacterial Protein analysis; Heat-Shock Proteins :: immunology; Heat-Shock Proteins :: physiology; Molecular Sequence Database; Gov't, P.H.S.;

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Department of Internal Medicine II, University of Ulm, Robert-Koch-Str. 8, 89081 Ulm, Germany. philipp.lepper@med2.uni-ulm.de

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